

## Legal Medicine

Principal Investigator Katsuya Honda

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### Other Faculty Members

Associate Professor Yukiko Sugano

### Major Scientific Interests of the Group

- 1) Development of innovative DNA profiling
- 2) Pathology of the cardiac sudden death
- 3) Development of a hypersensitive toxicological test
- 4) Study of the social aspect of the medical history

### Projects for Regular Students in Doctoral or Master's Programs

Mitochondrial polymorphisms associated with fetal diseases in Japanese  
Forensic DNA analysis using next generation sequencing

### Study Programs for Short Stay Students (one week – one trimester)

Forensic DNA typing, LC/MS/MS and GC analysis, ICP-AES analysis, Microscopic Analysis

### Selected Publications

- 1) **K Honda**. DNA analysis overturns the death sentence of a condemned criminal held in custody for 48 years. **Forensic Sci Inc Genet**. 2015;16: e5-e6.
- 2) **K Honda**, Muramatsu H, Hashimoto R, Iwabuchi Y, Tatsuzawa C, Yano S, **Sugano Y**. The mitochondrial DNA polymorphisms in chromosomal aberration detected by next generation sequence. **Forensic Sci Inc Genet SS**. 2015;5: e375-e377.
- 3) Yano S, **Honda K**, Kaminiwa J, Nishi T, **Sugano Y**. DNA extraction for short tandem repeat typing from mixed samples using anti-human leukocyte CD45 and ABO blood group antibodies. **Forensic Sci Inc Genet**. 2014;10:17-22.
- 4) Nishi T, Kurosu A, **Sugano Y**, Kaminiwa J, Sekine Y, Yano S, **Honda K**. Application of a novel multiplex polymerase chain reaction system for 12 X-chromosomal short tandem repeats to a Japanese population study. **Legal Med**. 2013;15: 43-46.
- 5) **Honda K**. The Ashikaga case of Japan-Y-STR testing used as the exculpatory evidence to free a convicted felon after 17.5 years in prison. **Forensic Sci Inc Genet**. 2012;6: e1-e2.
- 6) **Sugano Y**, **Honda K**. The Succession of the Hippocratic Corpus in Modern Greece. **J Japan Society of Med History**. 2010;56: 67- 76.